

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                                   |   |                        |
|-----------------------------------|---|------------------------|
| In re Patent Application of       | ) |                        |
|                                   | ) |                        |
| <b>ZHU, et al.</b>                | ) | Group Art Unit: 1725   |
|                                   | ) |                        |
| Application No.: 09/378,769       | ) | Examiner: K. Stoner    |
|                                   | ) |                        |
| Filed: 08/20/1999                 | ) | Atty Docket: NOVA-P015 |
|                                   | ) |                        |
| For: SEMICONDUCTOR EUTECTIC ALLOY | ) |                        |
| METAL (SEAM) TECHNOLOGY FOR       | ) |                        |
| FABRICATION OF COMPLIANT          | ) |                        |
| COMPOSITE SUBSTRATES AND          | ) |                        |
| INTEGRATION OF MATERIALS          | ) |                        |

**ASSOCIATE POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

As the Assignee of the entire interest in the above-identified application, I hereby appoint and associate **DENNIS S. FERNANDEZ, REG. NO. 34,160** and **PETER C. SU, REG. NO. 43,939** to prosecute and transact all business in the Patent and Trademark Office connected with the above-identified application. This associated power of Attorney does not revoke previously given powers of attorneys. The Assignee has reviewed documentary evidence of the chain of title from the original owner to the Assignee recorded in the U.S. Patent and Trademark Office at Reel 010200, Frame 0580, and certifies that to the best of its knowledge and belief it is the owner of the entire right, title and interest in and to the above-identified application.

Please direct all telephone calls and correspondence to:

**FERNANDEZ & ASSOCIATES, LLP**  
**PATENT ATTORNEYS**  
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The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Date: 3/5/2001

Signature: \_\_\_\_\_

Name: Felix Ejeckam

Title: President and CEO

Company: NOVA CRYSTALS, Inc.

## ASSIGNMENT AND AGREEMENT


For value received, I, Zuhua Zhu, of Ithaca, in the State of New York, Tuoh-Bin Ng, of Ithaca, in the State of New York and Yu-Hwa Lo of Ithaca, in the State of New York hereby sell, assign and transfer to Nova Crystals, Inc., having an office at 30 Brown Road, Ithaca, New York 14850, and its successors, assigns and legal representatives (hereinafter referred to as the "Assignee"), the entire right, title and interest, for the United States of America, in and to certain inventions related to the **"SEMICONDUCTOR EUTECTIC ALLOY METAL (SEAM) TECHNOLOGY FOR FABRICATION OF COMPLIANT COMPOSITE SUBSTRATES AND INTEGRATION OF MATERIALS"** described in an application for Letters Patent of the United States, executed by me of even date here with, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Assignee the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Assignee in the United States and in all countries foreign to the United States, or to such nominees as Assignee may designate.

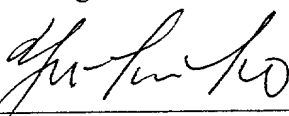
I agree that, when requested, I shall, without charge to Assignee, but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
\_\_\_\_\_  
Zuhua Zhu

8/16/99  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Tuoh-Bin Ng

8/16/99  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Yu-Hwa Lo

8/16/99  
\_\_\_\_\_  
Date